

## Differential Gas Pressure (DGP) (Gas Pressure) 0 - 50kPa ( $\pm 2.5\%$ ) Smart Box

**Product Codes: DGGaSB1097**

The Differential Gas Pressure Smart Box is designed to measure between 0 kPa to 50 kPa.



### Sensor Specifications

Measurement Type	Gas Pressure (Differential)
Operating Temperature	-40 to 125°C
Storage Temperature	-40 to 125°C
Measurement Range	0 kPa to +50 kPa
Response Time, (Sensitivity)	1 ms
Repeatability	N/A
Accuracy	$\pm 2.5\%$
Life Expectancy	N/A
Sensor Type	Gas Pressure (Differential)
Sensor Cable Length	N/A
Certified	No

### Smart Box Specifications

Operating Temperature	-40°C to +85°C
Storage Temperature	-40 to 105°C
Air Data Rate	250 kb per second
Channels	16 (IEE 802.15.4 channels 11-26)
Hardware Supported Encryption	AES128
Analogue Digital Resolution	Up to 12 bits
Sample time for 12 bit conversion	680 $\mu$ s

### Power Supply Option

Standard PSU mains
Water Resistant PSU mains
Battery 9V (Replaceable)
Battery (Rechargeable)
Solar & Battery (Rechargeable)

### Smart Box Housing IP Rating

Indoor	IP50
Outdoor Splash proof	IP51
Outdoor - water jet	IP65
Outdoor - Immersion	Contact Us
Outdoor Explosion Proof	Contact Us



British Research Unit 4,  
Vale Enterprise Centre, Hayes Rd.,  
Sully, Vale of Glamorgan, CF64 5SY UK  
Tel. 0044 (0) 1446 734012  
Fax. 0044 (0) 5601 258134  
Web: www.britishresearch.com

Antenna Options (Range)		Code
Internal	(60m)	i
Large	(700m)	L
Right-Angle	(300m)	R
Small Stub	(300m)	S